ABSTRACT

Distance measuring device

Distance measuring device comprising an emitter and a receiver, said emitter being arranged to produce a magnetic field by means of a resonant circuit having a resonant frequency, said receiver being arranged to pick up at said resonant frequency the magnetic field emitted by the emitter and convert the strength of the magnetic field picked up into a first signal having an energy value, said emitter being arranged to produce said magnetic field intermittently, each emission having a predetermined energy, said receiver being connected to a detector arranged to determine, by correlation of said first signal with a second predetermined signal having a waveform representative of a signal to be picked up by the receiver, a distance measurement signal representing the distance between the emitter and the receiver. The device finds its application in detectors for sleep disorders or other forms of illness.

Figures 22 c and d